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FRIENDS OF MINERALOGY MIDWEST CHAPTER

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SATURDAY, NOVEMBER 5, 2005, 3:00 P.M.

CLEVELAND MUSEUM OF NATURAL HISTORY

1 WADE OVAL, UNIVERSITY CIRCLE

CLEVELAND, OHIO



LUIZ MENEZES

“THE LINOPOLIS-GALILEIA PEGMATITE DISTRICT, BRAZIL”

Mr. Menezes will give his second program of the weekend at 1:30 P.M. on Saturday.

His Friday evening program at 8:00 P.M. will be about “Minerals of the Jacupiranga Mine in Brazil”

The Midwest Chapter meeting will follow his Saturday afternoon talk.



PRESIDENT'S MESSAGE

Greetings!! The Greenfield meeting, Saturday, September 10, was well attended with speaker John Rakovan of Miami University (Ohio) giving an excellent account of his mineralogical excursions in Japan.

Paul Schwin spearheaded a successful three-day mineral sale at Greenfield, which added \$327.00 to our treasury. The Edington's provided the tables and Sylvia Sicree helped with the sale on Saturday. Paul's efforts and the generous donations of numerous quality specimens by Vernon Swanson and Paul Schwin, in particular, are greatly appreciated by the membership of the Midwest Chapter.

The Huron River concretion trip was quite productive and the Findlay Arch Field Symposium was successful (see reports on page 3). Field trip guidebooks for the Findlay Arch Symposium are still available for \$2.00. Contact me if interested.

The next meeting of the Midwest Chapter is at 3:00 PM, Saturday, November 5, at the Cleveland Museum of Natural History in conjunction with the Symposium of the Micromineral Society of the Cleveland Museum of Natural History.

A financial report on the Field Symposium will be presented at this time as well as election of officers for next year. Nelson Shaffer has agreed to serve as Chairman of the nominating committee.

Hope to see you in Cleveland.

Ernie Carlson, President

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RENEWING YOUR MEMBERSHIP

As November is the last meeting of 2005, it is time to renew your membership for 2006 in the Midwest Chapter.

A renewal form is enclosed with this newsletter. Please return form with your check in order for us to keep your information up-to-date. Dues are \$15.00 for the first member and \$10.00 for each additional member (same address). Send your check to

Lorraine Wright, Treasurer-Midwest Chapter, 1505 S. Randolph St., Indianapolis IN 46203

MINUTES OF THE MEETING—SEPTEMBER 10, 2005

The September 10, 2005, meeting of the Midwest Chapter of the Friends of Mineralogy was held at the Hancock County 4-H Fairgrounds in Greenfield, Indiana. Our host for this meeting was the 500 EARTH SCIENCES CLUB GEM, MINERAL AND FOSSIL SHOW & SWAP.

Dr. John Rakovan of Miami University opened the meeting with an outstanding slide-illustrated presentation of his experiences on his recent sabbatical in Japan with emphasis on Japanese minerals and Japan's museum mineral collections.

President Ernie Carlson followed with a brief business meeting.

Old Business: The August 20, 2005, field trip on the West branch of the Huron River, led by Dr. Carlson and Paul Schwin and attended by two other members, was a success despite the damp weather. Good quartz specimens were collected.

Dr. Carlson reported that the September 24-25, 2005, Midwest Chapter Field Trip Symposium is fully subscribed. Although there is a 30-person limit to the event there is a waiting list if some one should cancel.

New Business: Member Paul Schwin is running a mineral sales booth at the show for the benefit of the chapter.

Earth Science Week is October 9-15, 2005.

The chapter's participation in GEOFEST4 at the INDIANA STATE MUSEUM on October 21-22, 2005, was discussed.

The meeting was then adjourned.

Albert Sicree, Secretary

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INCLUSIONS IN HERKIMER DIAMONDS

Although collectors have favored the doubly terminated quartz crystals from Herkimer County for years, the inclusions trapped during the formation of these limpid crystals are quite interesting. Herkimer County quartz crystals, of all the quartz crystals, offer some of the clearest and best opportunities to study inclusions. There are two main types: liquid inclusions, solutions trapped during the initial growth of the crystal or at a later period in (healed) cracks; and solid inclusions, crystals or particles of hydrocarbon either mechanically enclosed during the growth of the crystal or formed later by exsolution. A single crystal will often show both types. In size, the fluid inclusions range from a diameter of probably less than one micron (a thousandth of a millimeter).

Several minerals have been observed in the Herkimer County quartz crystals including pyrite, sphalerite and calcite. From the Newport locality, garnet and dolomite have been collected. Pyrite is found around some crystals as a thin coating, particularly on crystals from Canajoharie. Sphalerite has been reported as veins with pyrite, in pockets within the pyrite, in pockets within calcite and as minute inclusions within the crystals themselves.

REPORT ON HURON RIVER CONCRETION TRIP

The Huron River concretion trip on Saturday, August 20 was successful from a collecting standpoint, but only four people attended Paul Schwin (leader), Ken Newman, Tim Fosberg and myself. Large septarian concretions occur in the Late Devonian Huron Shale that is exposed along the West Branch of the Huron River. Veins containing barite, quartz, calcite, four generations of dolomite, whewellite and other minerals occur in the septaria. Because of the threat of rain we moved from the Lovers Lane site to the Lamereaux Road site, which involved wading the river for a shorter distance and better collecting opportunities. The river level was quite low. Because of their toughness, small sledgehammers and chisels were required to work the concretions. Early on we encountered a large loose septarian concretion just upstream from the bridge over Lamereaux Road. This concretion produced many excellent specimens of colorless terminated quartz crystals, barite and early dolomite, which proved to be the highlight of the trip. We also collected nice specimens of early dolomite, dark brown and pale yellow rhombohedral dolomite as well as some pyrite nodules, on an excursion to a cliff exposure ¼ mile downstream.

REPORT ON FINDLAY ARCH FIELD SYMPOSIUM

The Field Symposium held September 24 and 25 was successful and attended by 26 enthusiastic members and guests. We were blessed with ideal weather for the trip. The first stop, the Hanson Aggregates Midwest, Inc., Sylvania Quarry, in northern Lucas County, provided the best collecting of the two-day excursion. Elena Bailey and other personnel of Hanson Aggregates were with us at the site. Rocks exposed in the lower reaches of the quarry belong to the Middle Devonian Detroit River Group. Collecting was excellent along the floor of the quarry for well-formed sky blue and white to colorless bladed to tabular crystals of celestine up to 5 cm long. A few nice blocky equant crystals of blue celestine measuring 7 cm on an edge were also brought out. Don Hollenbaugh collected an unusual vug, containing a group of blue celestine crystals on one side and a group of colorless celestine crystals on the other side. Some pockets of celestine were filled with curved rhombohedrons of pale yellow calcite in groups several cm across. All told we spent a little over two hours collecting at the Sylvania quarry.

We spent the afternoon at the Graymont Dolomite quarry at Genoa, southwestern Ottawa County. Gary Elliott of Graymont Dolomite was with us at the site. Rocks exposed in the quarry belong to the fossiliferous Middle Silurian Lockport Dolomite. Our efforts were concentrated at the upper level of the quarry where celestine is extremely abundant. The celestine crystals, however, were difficult to extract without breaking because they are found in large blocks of tough rock. The crystals are colorless to white and typically bladed, ranging up to 5 cm in length. Intergrowths of celestine with fluorite and sphalerite were less common. The sphalerite is typically reddish brown and granular although some crystals with curved faces were obtained. The fluorite commonly is dark brown to pale yellow in granular masses or cubic crystals up to 2.5 cm across. The fluorite is fluorescent and phosphorescent in UV light. Some iridescent pyrite and groups of colorless to pale yellow calcite crystals were present also.

Saturday evening's Symposium was held at the Holiday Inn Express in Fostoria. Our speakers were John Medici and Joe Vasicchko. John spoke to us about his experiences collecting celestine in northwestern Ohio and southeastern Michigan. He showed spectacular aerial views of many of the quarries he described. Highlights were mineralized caves at Portage and Lime City in Wood County. Joe discussed fluorescent and phosphorescent minerals, concentrating on northwestern Ohio but treating materials from other parts of the state as well. He illustrated his talk using a fluorescent cabinet with numerous samples showing fluorescence in short wavelength, middle wavelength and long wavelength UV light.

Sunday morning was spent at MacRitchie Materials, Inc., quarry at West Millgrove. Fortunately, a quarry worker showed up who opened the gate for us. Rocks at the site include the Middle Silurian Lockport Dolomite and the overlying Late Silurian Greenfield Dolomite. Active parts of the quarry at the north end of the operation were not productive for collecting. We concentrated our efforts in the older workings at the south end of the quarry. Here, collecting for celestine was good in pockets of the flaggy white to pale blue with bladed and tabular habits in lengths up to 3 cm. Some interesting color banded crystals with banding parallel to crystal faces were recovered by John and Jay Medici.

REPORTED BY ERNIE CARLSON, PRESIDENT MIDWEST CHAPTER

**FOCUS ON MICROMOUNTING
A WEEKEND SYMPOSIUM SPONSORED BY THE
MICROMINERAL SOCIETY OF THE CLEVELAND MUSEUM OF NATURAL HISTORY**

Tentative Program: Friday, November 4

3:00-5:00 and 7:00-8:00 PM

Symposium registration and microscope setup in classroom A&B on the lower level (student lab)

8:00 PM Evening program. Featured speaker Luiz Menezes - "Minerals of the Jacupiranga Mine in Brazil"

Saturday, November 5:

8:30-9:30 AM Registration and setup. Continental breakfast

9:30-10:45 AM Morning short talks:

1. Paul Clifford—"Wurtzite from Ohio and Pennsylvania"
2. Vlad Klipov—"Growing Quartz Crystals"
3. Pete Richards—"Quartz Epitactic on Hemimorphite from Montana"

10:45-11:00 Coffee break

11:00-12:30 PM Workshop for individual study, swapping, picking up "freebies", show and tell and general good fellowship

12:30-1:30 PM Lunch time: Deli tray, potato salad and beverages

1:30-2:30 PM Afternoon talk-Second program by Luiz Menezes - "The Linopolis-Galileia Pegmatite District, Brazil"

3:00-5:00 PM Second workshop session

3:00-4:00 PM Friends of Mineralogy-Midwest Chapter meeting

6:30-til? Pot luck dinner to be held at the home of Janet and Paul Clifford. Out-of-town visitors will be our guests. All participants are welcome.

Sunday, November 6

9:30-11:00 AM Museum will be open for early-bird mounters. Continental breakfast. Continuation of workshop activities

11:00-11:45 AM Morning session - CD presentation - "Minerals of the Foote Mine, North Carolina"

11:45-12:45 PM Lunch time: Deli tray, potato salad and beverages

12:45-3:30 PM Tour the Museum galleries or third workshop session.

**Also scheduled for a talk will be FoM-MC member Dwaine Edington on "The Trancas Geodes of Chihuahua, Mexico"

The fee for the entire symposium is \$35 (U.S.) per person or \$65 for a couple. This includes admission to all activities on all 3 days, plus continental breakfast and deli tray lunch on both Saturday and Sunday. For those wishing to attend just 1 day the fee will be \$15. For those attending just the Friday night talk the fee will be \$5.

Lodging:

Some lodging for out-of-town participants will be available with members of the Society on a first-come, first-served basis. For additional information call Dick Green at 330-929-2395

Some East Side hotels, motels are:

Baymont Inn** I-271 & Mayfield, Mayfield Heights 440-442-8400

Super 8** I-271 & Chagrin, Beachwood 216-831-7200

Days Inn** I-90 & Rt. 306, Mentor 440-946-0500

Red Roof Inn** I-90 & Rt. 306, Mentor 440-946-9872

Holiday Inn Cleveland East** I-90 & Bishop Rd., Wickliffe 440-585-0600

Motel 6**8370 Broadmoor, Mentor 440-953-8835

Inter-Continental Suite Hotel** 8840 Euclid Ave., University Circle 216-707-4300

Glidden House** 1901 Ford Drive, University Circle 216-231-8900

Send your check or money order attention Ticket Sales Person, Cleveland Museum of Natural History, 1 Wade Oval University Circle, Cleveland OH 44106. The telephone number for the museum is 216-231-4600, with note that payment is for Micromineral Symposium.